

From glowbugs@theporch.com Wed Jan 1 07:57:54 1997  
Return-Path: <glowbugs@theporch.com>  
Received: from uro (localhost.theporch.com [127.0.0.1])  
by uro.theporch.com (8.8.4/AUX-3.1.1)  
with SMTP id HAA11854;  
Wed, 1 Jan 1997 07:51:59 -0600 (CST)  
Date: Wed, 1 Jan 1997 07:51:59 -0600 (CST)  
Message-Id: <199701011351.HAA11854@uro.theporch.com>  
Errors-To: ws4s@infoave.net  
Reply-To: glowbugs@theporch.com  
Originator: glowbugs@theporch.com  
Sender: glowbugs@theporch.com  
Precedence: bulk  
From: glowbugs@theporch.com  
To: Multiple recipients of list <glowbugs@theporch.com>  
Subject: GLOWBUGS digest 400  
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas  
X-Comment: Please send list server requests to listproc@theporch.com  
Status: 0

#### GLOWBUGS Digest 400

Topics covered in this issue include:

- 1) Happy New Year  
by Murray Kelly <mkelly@faraday.dialix.com.au>
- 2) List traffic  
by jeffd@coriolis.com (Jeff Duntemann)
- 3) Re: SKN  
by "R. Eric Sluder" <sludere@gte.net>
- 4) FWD: (Re:Ampex PR-10)  
by bry@mnsinc.com (Brian Carling)
- 5) 6L6 Project  
by Bob Roach <KE4QOK@worldnet.att.net>
- 6) Re: Starting up the club  
by w5jv@juno.com (J. Douglas Hensley)
- 7) Re: 6L6 Project  
by Bob Roach <KE4QOK@worldnet.att.net>
- 8) 90th Anniversary of Triode  
by joe@westonia.com (Joseph Cooper)
- 9) Microwave X-former  
by Bob Roach <KE4QOK@worldnet.att.net>
- 10) Re: Microwave X-former  
by "Brian Carling" <bry@mail1.mnsinc.com>
- 11) Need 3518 Crystal  
by kd6poc@juno.com (Adam J McLaughlin)
- 12) Re: Microwave X-former  
by "R. Eric Sluder" <sludere@gte.net>

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Date: Wed, 01 Jan 1997 00:34:07 +1100  
From: Murray Kelly <mkelly@faraday.dialix.com.au>  
To: glowbugs@theporch.com  
Subject: Happy New Year  
Message-ID: <32C9164F.118F@faraday.dialix.com.au>

Here's wishing all the Glowbuggers a Happy New Year from Down Under

\*\*\*\*\*  
\* Murray Kelly vk4aok mkelly@faraday.dialix.com.au \*  
\* 29 Molonga Ter. / Graceville/ QLD. 4075/ Australia \*  
\* ph/fax Intl+ 61 7 3379 3307 mobile 018 071 355 \*  
\*\*\*\*\*

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Date: Tue, 31 Dec 1996 09:06:33 -0700  
From: jeffd@coriolis.com (Jeff Duntemann)  
To: glowbugs@theporch.com  
Subject: List traffic  
Message-ID: <1.5.4.32.19961231090017.00f3d8a8@ntserver.coriolis.com>

Hi gang--

One significant reason for the recent dearth of list traffic may be holiday travel. I was out of town for a whole week, and know of one additional list member who was away for longer than that. I haven't been able to get out in the garage and do stuff for almost two weeks now, so there hasn't been much to report.

Just as seasonal thing, like this headcold I've been lugging around in my sinuses...

--73--

--Jeff Duntemann KG7JF  
Scottsdale, Arizona

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Date: Tue, 31 Dec 1996 11:07:56 -0800  
From: "R. Eric Sluder" <sludere@gte.net>  
To: bry@mail1.mnsinc.com  
Subject: Re: SKN  
Message-ID: <32C9648C.3F0A@gte.net>

> BTW - does anyone know what time the activity officially starts?  
> I would like to mostly do it in the daytime when QRP contacts are  
> easiest on 40m !!

According to my QST (Dec. issue) it starts at 7:00 PM EST New Year eve  
and last until 7:00 PM EST New Years day.

Now, I just got to get that 40 meter antenna up....

73 and Happy New Year to all!

Eric

--  
#####  
R. Eric Sluder, KB9BGS  
Carmel, IN  
E-mail: sludere@gte.net  
#####

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Date: Tue, 31 Dec 1996 14:47:39 GMT  
From: bry@mnsinc.com (Brian Carling)  
To: glowbugs@theporch.com  
Subject: FWD: (Re:Ampex PR-10)  
Message-ID: <199612311746.MAA01796@news2.mnsinc.com>

Here you go: This is for the gentleman who was looking for an Ampex PR-10  
schematic or part, whatever it was. Maybe this fellow can help you.  
Just drop him an e-mail anyway. Perhaps he can at least point you in the  
right direction.

(We cover it ALL here on GLOWBUGS!!)

On Tue, 31 Dec 1996 15:25:37 GMT, bugtussl@world.std.com (bugtussle)  
inscribed eloquently in rec.radio.antiques.radio+phono

|>x-no-archive: yes

|>Reasonable offers considered.

|>Ampex 350 AG 1/4" 2-track 7.5/15 ips in roll-around. SS. Prefer  
|>Boston-area interest. Includes manual, spare motors. \$250  
|>Telefunken V376 vintage mic pre's. Discrete elecs, 70 db gain w/fine  
|>tune, 3 band selectable high pass. W/connectors. MAKE OFFERS!  
|>RCA integrated tube amp. (2) 6L6. \$100  
|>Ampex MX10 stereo tube mixer \$850/offers  
|>Altec tube mic pre's: (4) 1561A mic, (1) 1563A line, PS, manual,  
|>connectors. These are raw modules w/no plug ins- thus they are  
|>currently hi-imp.\$250  
|>Ampex PR10 tube pre/front ends. \$375  
|>Ampex 350 tube electronics. A pair. Offers  
|>Ampex tube Paging Panels. 8" speaker. A pair. Offers.

|>Looking for late 50's tweed Deluxe and empty/mangled Vibrolux Reverb for  
|>cabinet, as well as Altec 4277 plug-ins and some Ampex transformers for  
|>the PR10.

|>--

|>

73 from Bry (((Amateur Radio G3XLQ / AF4K)))  
<http://www.mnsinc.com/bry>  
E-mail: bry@mnsinc.com  
Home of MEGALIST ham radio files, SWL info. etc. etc.

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Date: Tue, 31 Dec 1996 18:19:17 +0000  
From: Bob Roach <KE4QOK@worldnet.att.net>  
To: glowbugs@theporch.com  
Subject: 6L6 Project  
Message-ID: <19961231181909.AAB6173@LOCALNAME>

Hello Everyone,

I'm happy to say that I am finally "under construction" here on a 6L6 TX project. Most of the effort so far has gone into a power supply that will, hopefully, serve to feed numerous future projects.

Hope to pick up the rest of the things I need at the Richmond "Frostfest" in January.

I'll update the progress as time goes along.

(o o)

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73 es TNX

KE4QOK Real radios glow in the dark.

Bob Power is no substitute for skill.

If it stayed up last winter, it was too small.

136 Hermitage Rd.

Newport News, Va. 23606 KE4QOK@worldnet.att.net [try here first]

(757)930-0348 bob.roach@sourcebbs.com

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Date: Tue, 31 Dec 1996 13:24:53 EST

From: w5jv@juno.com (J. Douglas Hensley)

To: Glowbugs@theporch.com

Subject: Re: Starting up the club

Message-ID: <19961231.122321.5159.1.w5jv@juno.com>

Good luck with your efforts Joe,

Having been involved with efforts down here over the years and having worked in several professional communications settings, I can't resist a comment. As I look back on the output and results of the different efforts to reach and then start off young folks in radio, those that taught construction skills (either component or facility) produced the long lasting hams. Back then, this was not so easy to do because with tube equipment, the high voltages required posed such safety problems that both the students and instructor worked at risk and the program host's liability was a big concern.

Today, you can work circuits using common AA, C, D cells and do quite well. Avoid using 9 volt cells because the kids will put them in their pocket and coins or pocket knives will short them out potentially causing serious burns. Hi-Power NiCad cells will also explode. This is very difficult to do with in line batteries. If you avoid carbon cells and hardware store brands and stick to quality alkalines such as the Rabbit, your unlikely to damage equipment. As you know, several brands also repair or replace equipment used using their brand. I use these and have had everything from light meters to a Simpson 260 serviced when a problem developed.

In sum, if you teach a young man how to build a small radio station that he can take home and set up and use, you will have captured a heart forever. If you remember the little sheet metal station that was on the cover of "How To Become A Radio Amateur" ? This was, IMHO, the most influential ham station of all time. Good luck and God Speed.

Doug, W5JV

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Date: Tue, 31 Dec 1996 21:02:32 +0000  
From: Bob Roach <KE4QOK@worldnet.att.net>  
To: "Bowes, Fr. Bruce" <GBB1@MARISTB.MARIST.EDU>  
Cc: glowbugs@theporch.com  
Subject: Re: 6L6 Project  
Message-ID: <19961231210225.AAB12674@LOCALNAME>

At 08:12 PM 12/31/96 +0000, you wrote:

>I too hope to get started with 6L6 tx soon. What design did you  
>settle with. I have been looking at two in the 1948 Handbook, one  
>for a 1 tube tx and the other 2 tube tx. Think I will work on the 2  
>tuber.

Hi Bruce,

I have settled on a two tube (6AG7/6L6) rig from a schematic that Jeff Duntemann, KG7JF, put on the N6EV website (6L635W.TIF). This is my first venture into glowbug construction and also my first "major" scratch built project. One of the deciding factors was the fact that Jeff has a working model of this one so I have a place to go and ask "stupid" questions.<GG>

Good luck, and keep us posted, I will be looking forward hearing how it goes.

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73 es TNX  
KE4QOK            Real radios glow in the dark.  
Bob                Power is no substitute for skill.  
                    If it stayed up last winter, it was too small.  
136 Hermitage Rd.  
Newport News, Va. 23606 KE4QOK@worldnet.att.net  
(757)930-0348

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Date: Tue, 31 Dec 96 20:31 EST  
From: joe@westonia.com (Joseph Cooper)  
To: glowbugs@theporch.com  
Subject: 90th Aniversary of Triode  
Message-ID: <m0vfFWl-000iDFC@gpu2.westonia.com>

This New Years eve marks the 90th anniversary of the first test of the triode vacume tube by Lee de Forest. It worked, and the beginning of the electronic age began.

Interestingly enough, de Forest was not interested in using the triode in the way that it has come to be used for amplification. Rather what he thought he had developed was a more efficient detector. The grid, in his mind, acted to ionize gas that was left in the tube. The ionized gas, he believed, created the medium in which the rectification of radio waves took place.

The reason for this idea was that the practice of the time was to use various mediums to perform the rectification. We are all familiar with the crystal diode, where the crystal acts as a barrier to one half of the cycle of the AC current (radio frequencies in this case). A wide variety of other materials were used at that time, including acid, metalic paste and iron fileings.

One of the mediums that de Forest had been experimenting with was an open gas flame with two electrodes placed into the flame itself. This proved to be too cumbersome to use in a comercial setting, so the substitute for the flame was to be the ionized gas held in the bulb which contained an anode and cathode plate. In order to increase the efficiency of the ionization.

Interestingly, the person who suggested the "grid" that we know today had no relationship to de Forest, but was an assistant of the manufacturer of the actual device, and who's name was John Grogan. Originally de Forest simply wanted to place a single wire between the filament and plate in order to act as an ionizer, but Grogan felt that by bending the wire into a zig zag for it would provide more surface area for better ionization of the gas. It was then due to this desired ionization effect that de Forest called the device an "Audion".

The reason why de Forest had put over the testing of the new tube until Dec. 31, 1906 was that he felt that he had already made his main achievement earlier in November with the diode version. The actual test that he performed was to see if there were any manufacturing defects as the tube had been created to order by Henry W. McCandless, who made automobile headlights for Westinghouse and General Electric. The important point here is that when de Forest heard stronger signals, he felt that it was due to the improved efficiency of the diode due to the ionization, rather than by the placement of a bias voltage on the grid.

It would only be later in 1912 when Edwin Armstrong began to experiment with the tube that its true function and operation would be understood. Having grasped the real "purpose" of the grid, Armstrong was able to discover the principal of regeneration, and from that developed the first regenerative receiver in the summer of that year. (Interestingly, the only company to licence the curcuit and use it in production was Telefunken, a relationship

that lasted up until the U.S. entered into WWI in 1917).

For de Forest, the use of the "Audion" as commercial product was at first a failure, as most radio operators found that it was too fragile for practical use, and burned out too often. As a result many returned to either crystal diodes or other detection methods available at that time. He later lost his ownership of the patent to the Audion through a bad business deal with AT&T. This lead de Forest to come to resent Armstrong's sucess with the regenerative receiver, and for what ever reasons caused him to publicly claim that he had infact been the first to make the discovery. This lead to a long and protracted litigation that wasted years of potential work and discovery for both inventors.

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As were the end of the 19th and the beginning of 20th Century exciting times, so are our own. But please take a moment tonight and reflect on how many people from the past still touch our live today(and tommorow)through their work and efforts. Being human, many times they were wrong in their ideas, and in their actions as well. At other times they were brilliant, and showed what we can all be capable of if we apply ourselves. No matter what our situations, we all have a true connection to de Forest and Armstrong through our work with radios, particularly with our efforts to continue to use vacume tube technology. In this way it is through our work that we help preserve their early efforts and help keep part of their spirit alive in the glow of our tubes.

On that note I wish all of you a happy and prosperous New Year !

=====

\* Joseph Cooper-VE3FMQ QTH-East York-near Toronto Ontario Canada \*

\* Interests are:-Lowfer/VLF/BCB Radio-Woodworking-Steam Railroads \*

\* Blacksmithing-Antique Radios-Crystal Radios-Travel-Burmese Cats \*

\* Answering Machine(416)423-7333 FAX(416)423-7782 by arrangement \*

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Date: Wed, 1 Jan 1997 03:15:07 +0000  
From: Bob Roach <KE4QOK@worldnet.att.net>  
To: glowbugs@theporch.com  
Subject: Microwave X-former  
Message-ID: <19970101031505.AAA2615@LOCALNAME>

Hello guys,

Has anyone ever used a microwave oven transformer for a high voltage power supply. I have one that puts out about 1800 VAC and sense it was able to pump about 700W into somebody lunch it should have sufficient current capacity to be useful. Anybody tried this or know of a reason it won't work.

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73 es TNX

KE4QOK            Real radios glow in the dark.

Bob                Power is no substitute for skill.

          If it stayed up last winter, it was too small.

136 Hermitage Rd.

Newport News, Va. 23606 KE4QOK@worldnet.att.net

(757)930-0348

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Date: Tue, 31 Dec 1996 19:44:49 +0000

From: "Brian Carling" <bry@mail1.mnsinc.com>

To: glowbugs@theporch.com

Subject: Re: Microwave X-former

Message-ID: <199701010344.WAA00585@news2.mnsinc.com>

Bob - it looks to me like a microwave oven xfmr would make a GREAT power transformer for a medium power amateur power amplifier! Looks like it would work nicely with a 4-250 or two - or something like that!

On 31 Dec 96 at 21:16, Bob Roach chatted merrily:

> Hello guys,

>

> Has anyone ever used a microwave oven transformer for a high voltage  
> power supply. I have one that puts out about 1800 VAC and sense it  
> was able to pump about 700W into somebody lunch it should have  
> sufficient current capacity to be useful. Anybody tried this or  
> know of a reason it won't work.

>

(o o)

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> Newport News, Va. 23606 KE4QOK@worldnet.att.net

> (757)930-0348

>

>  
\*\*\*\*\*  
\* Brian Carling in Gaithersburg, Maryland, USA \*  
\* E-mail: bry@mnsinc.com \*  
\* http://www.mnsinc.com/bry/ \*  
\*\*\*\*\*

Thought for the day:

Capitalist: One who has given up all hope of  
paying their bills on time.  
or having adequate healthcare.

-----  
Date: Tue, 31 Dec 1996 23:15:36 EST  
From: kd6poc@juno.com (Adam J McLaughlin)  
To: glowbugs@theporch.com  
Subject: Need 3518 Crystal  
Message-ID: <19961231.201230.5167.0.kd6poc@juno.com>

Hi fellow Tube Homebrewers out there!

I would like to trade for or buy a 3518 crystal in an FT-243 case. I have many 40 meter rocks but very few for 80. One down here in the CW band would be very nice for my rig.

Adam McLaughlin KD6POC  
kd6poc@juno.com  
KD6POC@KD6KWM.#NOCAL.CA.USA.NOAM

-----  
Date: Wed, 01 Jan 1997 00:21:53 -0800  
From: "R. Eric Sluder" <sludere@gte.net>  
To: bry@mail1.mnsinc.com  
Subject: Re: Microwave X-former  
Message-ID: <32CA1EA0.532E@gte.net>

I've been wondering that myself. I just recently salvage one out of an old Amana that lost's its magnetron. Thought that transformer was good something besides a door stop -- I'd be interested in knowing if any has used one or not...

73,

Eric

Brian Carling wrote:

--  
R. Eric Sluder, KB9BGS  
Carmel, IN  
E-mail: sludere@gte.net  
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End of GLOWBUGS Digest 400

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